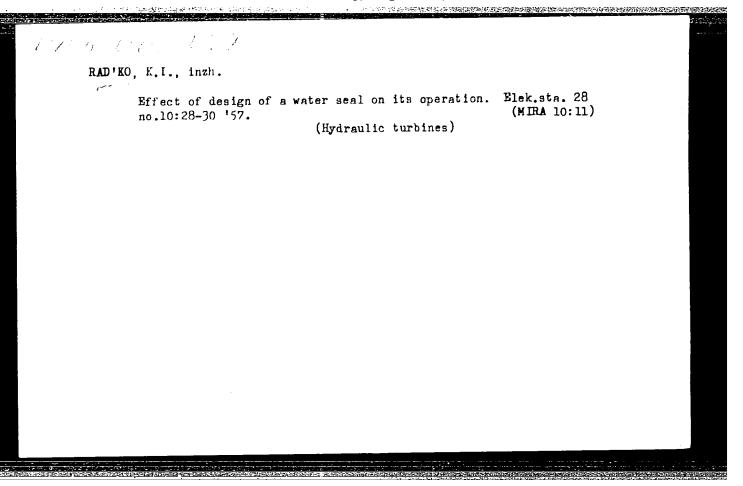


"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343"



"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RAD'RO, K. I. Cand Tech Sci -- (diss) "Study of water condensation in steam turbines." Sverdlovsk, 1958, 15 pp (Min of Higher Education USSR. Ural Polytechnic Inst im S. M. Kirev. Chair of heat-man Fower Engineering Installations of Electric Power Stations), 100 copies (KL, 11-58, 117)

-75-

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RAD'KO, K.I., iuzh.

Pressure distribution in a vater seal chamber. Izv. vys. ucheb.
zev.; energ. no. 1:92-96 Ja '59. (MRA 1::7)

1. Ural'skiy politekhnicheskiy institut im. S.M.Kirova.

(Steam turbines)
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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343"

RaD'KO, K.I., inzh.

Priction and water consumption in a water gland. Energomashinostroenie 4 nc.1:33-35 Ja '58. (MIRA 11:1)

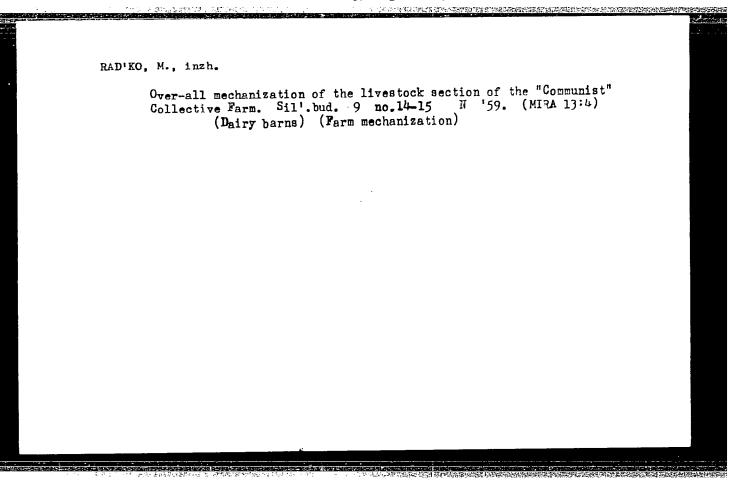
(Packing (Mechanical engineering)) (Steam turbines)

ingt no 70	ter seals in a steam turbin :46-58 '59. rbines) (Packing (Mechani	(MIHA 13:7)	

VIL'CHITAKIY, Vladimir Vladimirovich; KONOACHUK, Geniy Ivanovich; TITOV, Pavel Il'ich; KHEMLEV, Anatoliy Yakovlevich; KOCHETKOV, Nikolay Georgiyevich; RAD'KO, L.I., red.

[Fractices of leading workers for all miners] Opyt peredovikov - vsem shakhteram. [By] V.V.Vil'chitskii i dr. Kemerovo, Kemerovskoe knizhnoe izd-vo, 1963. 35 p. (MIRA 17:7)

- 1. Zamestitel' nachal'nika kombinata Kuzbassugol' (for Vil'chitskiy). 2. Brigad'r kompleksnoy brigady shakhty "Berezovskaya-l" kombinata Kuzbass (for Kononchuk).
- 3. Brigadir kompleksnoy brigady shakhtv "Chertinskaya-1" kombinata Kuzbass (for Titov). 4.Brigadir prokhodcheskoy brigady shakhty "Polysayevskaya-2" kombinata Kuzbass (for Khmelev). 5. Brigadir prokhodcheskoy brigady No.3-3-bis tresta Prokop'yevskugol'(for Kochetkov).



RAD'KO, M., inzh.

Organization, adoption, and use of ventilating installations in livestock buildings. Sil'.bud. 9 no.5:13-15 My '59. (MIRA 13:3) (Ukraine--Farm buildings---Heating and centilation)

GOLOSOV, V., nauchnyy sotrudnik; RAD'KO, M.; IVANOV, K.

Assembly-line method in rural construction. Sel'. stroi. 15
no. 2:5-7 F '61.

1. Akademiya stroitel'stva i arkhitektury USSR (for Golosov).
2. Glavnyy inzh, Upravleniya po stroitel'stvu v kolkhozakh
Ministerstva sel'skogo khozyaystva USSR (for Rad'ko).
3. Nachal'nik Simferepol'skoy mezhkolkhoznoy stroitel'noy
organizatsii (for Ivanov).

(Collective farms—Interfarm cooperation)
(Construction industry)

RAD¹KO, M., inzh.

A series of building machinery for interfarm building organization units. Sil'. bud. 12 no.1:8-9 Ja '62. (MIRA 16:12)

RAD'KO, M., inzh.

How to calculate the cost of adapting standard designs to local conditions. Sil'. bud. 12 no.5:21-22 My '62. (MIRA 16:4)

(Farm buildings--Costs)

RAD'KO, M.

Improve the work of Interfarm Building and Planning Organization and business accounting groups. Sil'.bud. 13 no.10:12 0 '63. (MIRA 17:3)

1. Glavnyy inzh. upravleniya po stroitel'stvu v kolkhozakh Einisterstva stroitel'stva i zagotovok sel'skokhozyaystvennykh produktov UkrSSR.

PEYVE, Ya.V., akademik, otv. red.; VLASYUK, F.A., akademik, red.; SIROCHENKO, I.A., prof., red.; VOYNAR, A.I., prof., red.; MINORIK, A.V., kand. biol. nauk, red.; OSTROVSKAYA, L.K., doktor biol. nauk, red.; ZADERIY, I.I., doktor sel'khoz. nauk, red.; KURINNAYA, M.F., dots., red.; KLIMOVITSKAYA, Z.M., kand. biol. nauk, red.; MITSYK, V.Ye., kand. vet. nauk, red.; KAFITANCHUK, V.A., red.; RAD'KO, E.K., red.

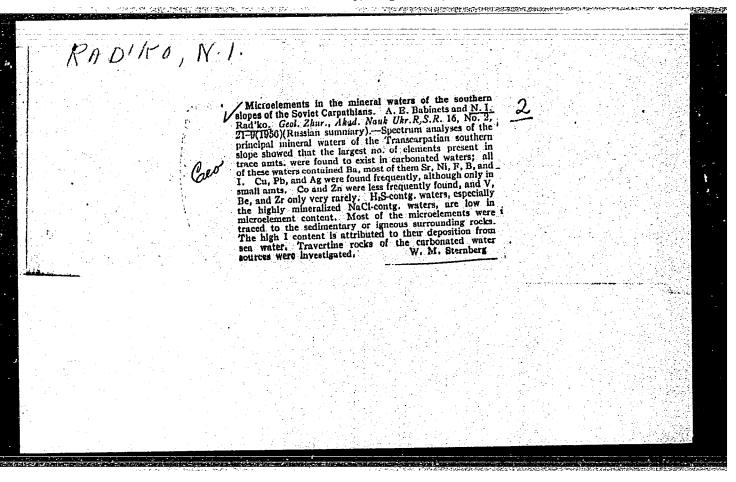
[Trace elements in agriculture and medicine; materials] Mikroelementy v sel'skom khoziaistve i meditsine; materialy. Kiev, Gossel'khozizdat USSR, 1963. 689 p. (MIRA 18:1)

1. Vsesoyuznoye soveshchaniye po voprosam primeneniya mikroelementov v sel'skom khozyaystve i meditsine, 4th, Kiev, 1962.
2. Ukrainskiy nauchno-issledovatel'skiy institut fiziologii
rasteniy AN Ukr.SSR (for Ostrovskaya, Vlasyuk). 3. Institut
biologii AN Latviyskoy SSR (for Peyve). 4. Kiyevskiy meditsinskiy institut (for Kurinnaya). 5. Donetskiy meditsinskiy institut im. A.M.Gor'kova (for Voynar). 6. Ukrainskiy nauchnoissledovatel'skiy institut fiziologii i biokhimii sel'skokhozyaystvennykh zhivotnykh (for Mitsyk). 7. Belotserkovskiy
sel'skokhozyaystvennyy institut (for Zaderiy).

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Interval, p. .[Lykhler], b.F.], kand. solltied. 19.2, fed.;

[Missel staing of each with piles on prick relage] Suncient poster advantage premaboropy in kulturany na sylos. Kylv, Berzheithosphylav Unik, 1903. Ift p. (hiki 19:16)

1. Ukraine. Ministerstv. telfokogo khowyaystva.
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RAD'KO, N.I.

Gas composition of underground waters in the Transcarpathia Neogene trough. Trudy Inst.geol.nauk AN URSR Ser.gidrogeol.i inzh.geol. no.8: 24-39 '62. (MIRA 15:7) (Transcarpathia—Water, Underground—Composition)

Rad'RO, N.K.

Role of the olfactory analysor in the burrowing of rodents in search of food. Trudy Inst. fiziol. 6:325-392 '57. (MIRA 11:4)

1. Laboratoriya ekologicheskoy fiziologii (zaveduyushchiy A.D. Slonin).

(SMELL) (RODENTIA)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

Device for cleaning the rack of the suction pipe of the dredge.
Rech. transp. 21 no.8:41-42 Ag 162. (MIRA 18:9)

1. Komandir-nastavnik Dneprevskogo basseynogo upravleniya vodnogo puti.

Seid/ Radke

Category : CZECHOSLOVAKIA/Nuclear Physics - Structure and Properties C-4

of Nuclei

Abs Jour : Rof Zhur - Fizika, No 3, 1957, No 5946

s Seidl Radko Author

: Inservice of Technical Physics of the Czechoslovek Academy Inst

of Sciences, Frague, Czechoslovakia

: Chekhosl. fiz. zh, 1956, 6, No 2, 199-200 Title

Abstract: Sterting with data on the energy liberated during K-capture or during (decay, the author considers the problem of the construction of a shell model of the nucleus. It is proposed that the B transition is carried out by the last particle in the snell. The neutron end proton levels are considered individually, It is stated, that on the basis of the data on the A-transition energy for free nucleons, it is possible to construct a scheme for the ground levels of the nuclei. This scheme is in agreement with the experimental date with respect to the stability of the individuel isotopes and the values of the nuclear spins. To obtain agreement with the nuclear binding energies and the data on nuclear reactions, it becomes necessary to propose that the transition of each nucleon causes a lowering of the buttom

of the potential well of the nucleus.

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013

Category : CZECHOSLOVAKIA/Nuclear Physics - Structure and Properties C-4

of Nuclei

Abs Jour : Ref Zhur - Fiziks, No 3, 1957, No 5947

Scidl Edderman Author

: Concerning the Problem of the Systematization of Spectra. Title

Orig Pub : Ceskosl. casop fys., 1956, 6, No 2, 222-223

Abstract : See Abstract 5946

CZECH/37-59-1-10/26

CZECH/37-1-10/26

CZECH/37-10/26

CZECH/37-10 PERIODICAL: Československý Časopis Pro Fysiku, 1959, Nr 1, pp 60-45 ABSTRACT: We define the counting range that each incident slow determined by the condition 21.5300 determined by the condition that each incident slow the counter, while the counter, while the electron produces a discharge in the countring without electron produces a discharge occurring without the limit is determined by discharges occurring without the limit is determined by the condition that each incident slow that each electron produces a discharge in the counter, while the without upper limit is determined by discharges occurring without upper limit is determined by discharges not the same as incident particles. AUTHOR: upper limit is determined by discharges occurring without the same as the formula of the measurements were carried out that for a plateau. The measurements and 200 mm that for a plateau of 25 mm diameter and 200 mm or evilondrical counters of 25 mm diameter. TITLE: that 101 a plateau. The measurements were carried of on cylindrical counters of 25 mm diameter and 200 mm on cylindrical counters of 25 mm diameter and 0.6 or 0.3 on cylindrical counters of 25 mm diameter and 200 mm diameter and 200 mm diameter of 0.06 or 0.1 mm on cylindrical counters tungsten wire of inactivated by length. The anode was made of conner inactivated by diameter. length. The anode was a tungsten wire of inactivated by a mixture of inactivated by a Limiting resistor was used (rig 1). Preliminary experiments showed that the properties of the counters experiments showed during their use with an increase rapidly deteriorated during their use experiments snowed that the properties of the counters with an increasing their use. With an This was rapidly deteriorated during their tange decreased number of nulses. rapidly deteriorated during their use. With an increasing their use the counting range decreased. The counters of pulses, the counting range anode. The counters due to the surface properties of the anode. number of pulses, the counting range decreased. The counters of the anode, but not by due to the surface properties the anode, but not by changing the anode, but not by could be regenerated by changing the anode. end of the counting If the anode is CardCard this case the end of the countriber of the countriber of the countriber of the countriber of the other countriber of the other counter can reduce the 2/3

67004

CZECH/37-59-1-10/26

Influence of the Emission Properties of the Anode on the Characteristics of Geiger-Müller Counters

changing the gas filling. The counters could also be partially regenerated by heating the anode either in an oxidizing medium or in vacuum. It was found that by using an external extinction circuit, pulses did not shorten the counting range of the counter. It was further found that the best anodes were prepared by slow oxidation of the tungsten wires such as by first heating the anode in a moderate vacuum and later in air. observed phenomenon is explained by electron-emission from the anode. The number of false pulses N_e is proportional to the number of emission centres > produced by electrons hitting the anode, to the number of all pulses N and to some function of the voltage. Near the upper limit of the counting range $\dot{N}_e = \dot{N} = \dot{N}_k$. From this, we obtain the condition for the end of the counting range (Eq 8); is a constant. If the anode is coated by an oxide layer, its surface contains only few electron traps. In this case the end of the counting range is caused by a different mechanism. On the other hand, the gas-filling of the counter can reduce the

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67004

CZECH/37-59-1-10/26

Influence of the Emission Properties of the Anode on the Characteristics of Geiger-Müller Counters

oxide coating on the anode and thereby produce electron traps. This mechanism explains the ageing of the

counter independently of the number of pulses, while the first mechanism described accounts for ageing which is

Card dependent on the number of pulses.
There are 3 figures and 4 references, of which 2 are 3/3

English, 1 is Soviet and 1 is Czech.

ASSOCIATION: Ústav technické fysiky ČSAV, Praha

(Institute of Technical Physics, Czechoslovak Ac.Sc., Prague)

SUBMITTED: July 7. 1958

21.5300

67020 CZECH/37-59-4-7/16

AUTHOR: TITLE:

Radko Seidl

On the Properties of Geiger-Muller Counters 19

PERIODICAL: Československý Časopis Pro Fysiku, 1959, Nr 4,

pp 384-399

ABSTRACT: The factors interfering in the fully reliable and reproducible operation of G-M counters will be discussed. Most of the material discussed is a consequence of the experience of this Laboratory, but some results from the literature will also be quoted. The ideal characteristic of a G-M counter contains a plateau (1), has a counting efficiency of 100% and produces one pulse only for each incident particle. We shall first describe the physical phenomena leading to non-ideal characteristics: (1) Some of the molecules of the gas may have metastable states. While the mean lifetime of an excited state is approximately 10-8 seconds, the mean lifetime of a metastable state may be as high as 10^{-2} seconds. This could lead to the emission of a photon long after the working discharge has finished, thereby causing a false pulse. (2) Electrons may be captured by neutral molecules, thereby forming negative ions. This electronegativity can lead to disturbances which will be discussed later.

Card 1/4

67020 CZECH/37-59-4-7/16

On the Properties of Geiger-Müller Counters

(3) A further disturbing factor is the emission of electrons from the electrodes. Of all the known types of electron emission, mainly Malter effect plays a role. This occurs on the surface of the electrodes by the capture of positive ions on very thin dielectric layers such as aluminium trioxide. A further emission can be the so-called excoelectron emission (Refs 1, 2). This occurs from shallow surface states by thermal excitation. The surface states can become occupied due to irradiation of the electrodes. A similar effect is the chemi-emission (Ref 3), This occurs by chemical reaction of the gas with the surface of the solid e.g. during oxidation. The described phenomena can lead to disturbances of two kinds: (a) reduction of counting efficiency, and (b) false pulses. Reduction in counting efficiency can be caused by an inhomogeneous electric field. usually determined by the geometry of the counter. presence of electro-negative molecules also reduces the counting efficiency. Free slow electrons collide during their motion towards the anode with electro-negative molecules. Some of these collisions end with the

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67020 CZECH/37-59-4-7/16

On the Properties of Geiger-Maller Counters

production of negative ions. These, because of the large mass, have a small mean free path, and therefore the electron which formed them is lost. This effect is mathematically discussed in some detail. False pulses. The most common type of false pulses are those which occur due to disturbances in the selfquenching mechanism. False pulses further occur due to electro-negative molecules. Some of the photons created during the active stage of the working discharge cause photo-emission on the cathode. The photoelectron may be captured by an electro-negative molecule. By disintegration of the thus formed negative ion, a false pulse can occur. This effect is also discussed in detail.

A further source of false pulses is the emission of electrons from the electrodes. All types of this emission are discussed in some detail. Two effects of ageing affect (c) Ageing of the counter. the characteristics of the counter. The self-quenching gas changes and the surface properties of the electrodes deteriorate. The gas will change mainly if, after dissociation during deionisation, no spontaneous association occurs. In this case, the number of active molecules will

Card 3/4

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CZECH/37-59-4-7/16

On the Properties of Geiger-Müller Counters

steadily decrease. Halogens are, therefore, indicated. The deterioration of the surfaces of the electrodes is less serious in counters using halogens than in those using hydro-carbons. The ageing process of the electrodes is, however, a very complex one. Table 5 shows the characteristics of the false pulses due to the various phenomena. Some of the disturbing effects can be counteracted by external means; others, like chemi-emission and field emission, depend on the material used and the construction of the counter. The means of counteracting these disturbances are discussed in some detail. The main importance of accurate knowledge of all these factors is in applications of the G-M counter where high accuracy is required.
There are 4 figures, 2 tables and 7 references, of which

2 are English, 4 Czech and 1 German.

ASSOCIATION: Ústav technické fysiky ČSAV, Praha (Institute of

Tech. Physics, Gzechoslovakian Academy of Science,

Card 4/4 Prague)

SUBMITTED: February 6, 1959

21.5300

67022

AUTHOR:

Radko Seidl

CZECH/37-59-4-10/16

TITLE:

Automatic Regulation of the Operating Voltage of Geiger-

Muller Counters 19

PERIODICAL: Československý Časopis Pro Fysiku, 1959, Nr 4,

pp 417-423

ABSTRACT: In various industrial applications of G-M counters, it is often necessary to adjust the operating voltage in order to follow changes in the level of the plateau. automatic regulator must consist of two basic parts. that senses the threshold voltage $V_{\rm po}$ and the other that adjusts the operating voltage $V_{\rm p}$. The most efficient sensing method is the measurement of the dependence of the charge passed during an impulse on $(V_p-V_{po})_{\circ}$. In this case, it is sufficient to demand that the regulating part should hold V_p at such a value as to make this charge constant. A further possible principle uses an auxiliary counter working under equivalent conditions as the main counter. The regulator device regulates the voltage in the auxiliary counter to $\ensuremath{\text{V}_{\text{po}}}$ and Vp on the working counter is achieved simply by adding a constant voltage to V_{po} Two of the main

Card 1/3

67022

CZECH/37-59-4-10/16

Automatic Regulation of the Operating Voltage of Geiger-Müller Counters

possible regulating devices are discussed. Fig 1 shows a diagram of a regulator working as an amplitude stabiliser for the counting pulses. Fig 2 shows the diagram of a stabiliser working on the second principle discussed above. The first method has one serious disadvantage. The time constant of the integrating circuit, RC, must be 100 times larger than the longest interval between pulses. Oscillations would otherwise occur. This means that RC must be of the order of 100 seconds, thereby making the response-time of the regulator unacceptably long. Though this difficulty can be overcome. It means considerable complications in the construction. The second method, working basically as a counting rate meter, can be chosen so as to have a time constant of the order of O.l seconds. A disadvantage of this method is, however, the necessity to use two counters working in an homogeneous ambient atmosphere. method overcomes the main disadvantage of the first while keeping its main advantage. Here, the stabiliser is carried out by a servo-mechanism actuated by a device

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CZECH/37-59-4-10/16

Automatic Regulation of the Operating Voltage of Geiger-Müller Counters

sensing the amplitude of the counting pulse. A block diagram of this arrangement is shown in Fig +. Fig 5shows the discriminator levels of this apparatus. There are 5 figures.

ASSOCIATION: Ustav technické fysiky ČSAV, Praha (Institute Tech. Physics, Czechoslovak Academy of Science, Prague)

SUBMITTED: January 18, 1959

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

YUL'YANKIH, I., RAD'KO, T.

Milking

Milking cows by machine in the pasture. Kolkh. proiz. 12 No. 6, 1952

Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

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	Windmill	ម													
	Rechaniza	ntion	of	henvy	jobs o	n the	farm,	Kolkh	proizv	No.	3, 1953	İ			
															:
9.	Monthly	List	<u>of</u>	Russia	n Acce	ssions	, Lib	rary of	Congre	ess,_	June		_1953,	Uncl.	

Modification of the threshers of RSM-8 and S-6 combines to harvest corn for grain. Tekh.v sel'khoz. 21 no.8:10-18 Ag '61.

(MIRA 14:7)

1. Kubanskiy nauchno-issledovatel'skiy institut ispytaniya traktorov i sel'skokhozyaystvennykh mashin.

(Combines (Agricultural machinery))

(Corn (Maize)—Harvesting)

STATKEVICH, M., polkovnik; PERSHINA, M., podpolkovnik; RAD'KO, V., podpolkovnik; PANFILENOK, podpolkovnik; SELINA, A., podpolkovnik; NIKONOVA, V., podpolkovnik meditainskoy sluzbby

Features of rear-echelon support of troops in the mountains. Tyl i snab.Sov.Voor.Sil 21 no.1:33-45 Ja '61. (MIRA.14:6)

1. Ofitsery tyla Zakavkazskogo voyennogo okruga. (Mountain warfare)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343"

RAD'KO, V.A., kandidat tekhnicheskikh nauk; YAKIMETS, Ye.M., inzhener.

Titrating solutions of potassium permanganate. Blek. sta. 28 no.6:
78 Je '57. (MLRA 10:8)

(Titrimeters) (Potassium permanganate)

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Trilonometric determination of manganese in the systems Mn<sup>2+</sup> - Fe<sup>3+</sup> and Mn<sup>2+</sup> - Al<sup>3+</sup>. Trudy Ural.politekh.inst. no.96:166-175 160.

(MIRA 14:3)

(Munganese—Analysis) (Systems (Chemistry))
```

Trilonometric determination of calcium, magnesium, and manganese present simultaneously. Trudy Ural.politekh.inst. no.96:176-181 '60. (MIRA 14:3) (Calcium—Analysis) (Magnesium—Analysis) (Manganese—Analysis)

RAD 'KO, V.A.; YAKIMETS, Ye.M.

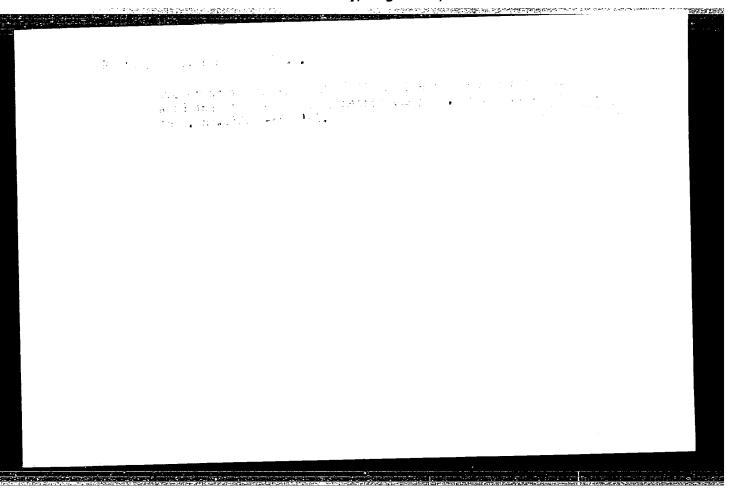
Determination of iron, aluminum, and manganese in metallurgical slags by the use of trilon. Zav. lab. 27 no. 12:1464-1465 '61. (MIRA 15:1)

1. Ural'skiy politekhnicheskiy institut im. S.M. Kirova.
(Iron—Analysis) (Aluminum—Analysis)
(Manganese—Analysis)

RAD'KO, V.A.; YAKIMETS, Ye.M.

Preparation and properties of the sodium salt of manganese (II) ethylenediaminetetrapectic acid. Zhur.neorg.khim. 7 no.3:683-686 Mr 162. (MIRA 15:3)

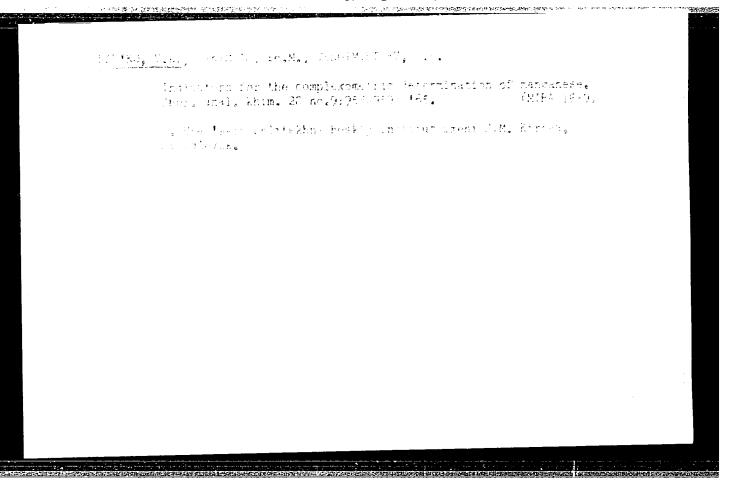
1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova. (Acetic acid) (Manganese compounds)



MIKITIN, V.D., YEKIMETS, Y.M., TIMAKOVA, N.A. RAL'K, T.A.: SHABASHOVA, N.V.; TRIBUNSKIY, V.V.

Preparing chalate compounds of ethlenediaminetetrascetic acid with the cations of cartain metals and methods of their analysis.

Truly Ural.politekh.inst. no.130:94-103 163. (MIRA 17:10)



Harvesting corn with re-equipped grain combines. Makh.sil'.

Harvesting corn with re-equipped grain combines. Makh.sil'.

hosp. 10 no.7:8-10 J1 '59. (MIRA 12:12)

(Corn(Maize)—Harvesting)

(Combines (Agricultural machinery))

RAD'KO, V.O.; BELOV, A.F. [Bielov, A.F.]

Machine for harvesting legumes. Mekh. sil'. hosp. 12 no. 6:11-12

Machine for harvesting legumes. Next. 311. 44:5)
Je '61.

l. Kubanskiy nauchno-issledovateliskiy institut ispytaniya traktorov i seliskokhozyaystvennykh mashin.

(Legumes---Harvesting)

RADKO-PAVLAK, MUDr., C.Sc.

Pathogenesis of human brucellosis. Vnitrni lek. 11 no.1:50-58 Ja '65

1. Laborator pro vyzkum anthropozoonos na katedre neurologie University J.E. Purkyne v Brne (reditel - prof. MUDr. K. Popek).

RADKCV, A.

"Mechanization in cutting and the primary processing of wood in low-branched forests; from experiences of the Forest Service in the village of Staro Cryakhevo, Stalin", P. 45, (TESHKA PROMISHLEMOST, Vol. 3, No. 4, 1954, Sofiya, Bulgaria)

30: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, Mo. 6, June 1955, Uncl.

Naval training.	Voen.znan. 31 no.11:26 N '55.	(MLRA 9:5)
	(Maval education)	

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SX/XX	Roscov, Teentral'nyy nauchno-issledovatel'skiy institut chemby metallurgii. Institut pretsitionnyth splavor	re splavy (Precision Alloys) Muscov, Merallunfitist, 1960, 200 p. Its: Bbornik trulov, vyp. 2) Errsta slip insered. 2,555 copies	Cosudarstvernays placovays komissiya.	Ta.I. Levit; Tech. Eis:	HOSE: This book is interched for engineers and extensitie personnel in the metallungical, instrument-probling, and electrical-perpetures indistrictly as well as for inhistral personnel record in the probling of president and personnel record in the probling and an about a standard, it as the problem of president and problem. It am also be useful to senders attending alterned betterial schools	CONCE: The articles in this collection present the results of investigations conducted in recent years by the Control Selectifities Research Institute of Perrous Metallurgy (Featural with passingles) and an ablungal). The articles deal with inhereral relative training the institute about magnetic allowy, properties and sinceture of the allowy accordance of the properties and an articles are controlled, the advanced of the allowed and in this fortunation and an articles are concerned with the investigation of deferred in the dependent of the the investigation of deferred in the advanced of the the investigation of deferred in the region of the fortunation of the articles are accordanted by references,	Gabrielyun, D.I. and G.M. Kadykova, Improved Dynamo Grade Electrical Braces Mith Al and As Additional	grette.	three of	Perromagnette.	ft Magnetie	Assa in Section	Padotov, L.K., and O.A. Layterv. Saturation Nagratisation of Perro- magnetic Alloys in the Low-Temperature Nagra- Dopore, V.P., and L.M. Pedotov. Longitudinal Galvacomegnetic Fffett	Anthotropy of	Matel.lron-	Molatilav, B.V., il.W. Pussy, and A.I., Radian. Volume Mapresostriction of Iron-Mickel-Wolybdanus Alloya	on and Some Other	Dorolding, M.M., Paxure-Analyzis Attachment for the UNS-501 R-Ray Machine for investigation of Deformation Textures in 50FP Alloy Thin Strip	Sorodkins, M.M., Z.M. Bulyrbeva and Kaip. Selisskiy. Ferture and Anisate- rory of Manadostriction of Some True-Base Alloys	ingation of	Ruman, Sh.I. Investigation of the licetice of the Estalliabant of Majoritic Texture in 69% Permalloy During Lov-Teaperature Ameralic	
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AUTHORS: Puzey. I. M., Molotilov, B. V., SOV/48-22-10-16/23

Rad'kov, A. I.

TITLE: On Volumetrical Magnetostriction in Iron-Nickel-

Molybdenum-Alloys (Ob"yemnaya magnitostriktsiya splavov

zhelezo-nikel-molibden)

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya,

1958, Vol 22, Nr 10, pp 1251 - 1253 (USSR)

ABSTRACT: A description of various devices used for the

following work is to be found in reference 1. Special attention has been paid to the observation of isothermic conditions during the tests. The adiabatic process of magnetisation is known to hinder any adequate measuring of magnetostriction, chiefly

owing to the magnetocaloric effect. Nickel has a negative volumetrical magnetostriction, so that its derivative $\partial A/\partial \omega$ is negative too. Thus some amount of nickel should be found on the descending branch of the Bethe curve. (Bete). Any reduction of the intermolecular distance should increase the Curie

Card 1/3 (Kyuri) point, especially if the average value of

On Volumetrical Magnetostriction in Iron-Nickel- SOV/48-22-10-16/23 Molybdenum-Alloys

the variable integral is thereby increasing. That conclusion is corroborated by the measures of the displacement of the Curie point with pressure (Ref 5). Iron has a positive isotheric volumetric magnetostriction, so that iron should be found on the ascending branch of the Bethe curve. After such a coordination some alloys changed the index of volumetrical magnetostriction (alloy 86) or magnetostriction became neutral (alloys 88, 89, 90). Obviously those alloys should be found in the maximum area of the Bethe curve. Alloys involving a (modified) index in connection with thermal work should be found near the zero lines of the linear magnetostriction (Ref 1). Molybdenum-permalloy lies away from those lines. Its index of volume rical magnetostriction remains unchanged. Furthermore the magnetostriction scarcely changes its magnitude in passing from the tempered to the annealed state. There are 3 figures, 1 table, and 5 references, 2 of which are Soviet.

Card 2/3

On Volumetrical Magnetostriction in Iron-Nickel-SOV/48-22-10-16/23 Molybdenum-Alloys

ASSOCIATION: Institut pretsizionnykh splavov TsWIIChERMET (Institute for Precision Alloys of the Central Scientific Research

Institute for Ferres Metals)

Card 3/3

RADKEY, A.T.

PHASE I BOOK EXPLOITATION

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sov/5526

- Vsesoyusnoye soveshchaniye po magnitnoy strukture ferromagnetikov, Krasnoyarsk, 1958.
- Magnitnaya struktura ferromagnetikov; materialy Vsesoyuznogo soveshehaniya, 10 16 iyunya 1958 g., Krasnoyarsk (Kagnetic Structure of Ferromagnetic Substances; Materials of the All-Union Conference on the Magnetic Structure of Ferromagnetic Substances, Held in Krasnoyarsk 10 16 June, 1958) Movosibirsk, Izd-vo Sibirskogo otd. AN SSSR, 1960. 249 p. Errata slip inserted. 1,500 copies printed.
- Sponsoring Agency: Akademiya nauk SSSR. Institut fiziki Sibirakogo otdeleniya. Komissiya po magnetizmu pri Institute fiziki metallov OFMH.
- Resp. Ed.: L. V. Kirenskiy, Doctor of Physical and Mathematical Sciences; Ed.: R. L. Dudnik; Tech. Ed.: A. F. Mazurova.
- PURPOSE: This collection of articles is intended for researchers in ferromagnetism and for metal scientists.

Card 1/11

71 SOV/5526 Magnetic Structure (Cont.) COVERAGE: The collection contains 38 scientific articles presented at the All-Union Conference on the Magnetic Structure of Ferromagnetic Substances, held in Krasnoyarsk in June 1958. The magnetic Substances, held in Krasnoyarsk in June 1958. tarial contains data on the magnetic structure of ferromagnetic materials and on the dynamics of the structure in relation to magnetic field changes, elastic stresses, and temperature. According to the Foreword the study of ferromagnetic materials had a successful beginning in the Soviet Union in the 1930's, was suppose the study of the stu subsequently discontinued for many years, and was resumed in the 1950's. No personalities are mentioned. References accompany individual articles. TABLE OF CONTENTS: 3 Foreword Shur, Ya. S. [Institut fiziki metallov AN SSSR - Institute of Physics of Metals, AS USSR, Sverdlovsk]. On the Magnetic Structure of Ferromagnetic Substances 5 Card 2/11

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Magnetic Structure (Cont.)	60V/5526			
Observation of the Domain Structure and the Barkhauser Effect	147	•		•
Fodichev, A. M., and M. K. Savahanko (Institute of Phys Olberian Branch AS USSR, Kraanoyarsk). Machanical Barkh Effect in Monocryptals of Transformer Steel	ics, ausen 151			
Furly, I. M., V. M. Lutockkin, and A. I. Radikov [InNIICollMET - Central Scientific Recearch Institute of Ferrous Metallurgy]. Study of the Lynamics of the Demain Structure in an Ultrasonic Field	155			
Mirchokiy, L. V., A. I. Brokin, and V. S. Cherkishin [Institute of Physics, Siberian Branch AS USSE, Teachers Institute, Krasnoyarsk]. Effect of Ultrasound on Magnetic Properties of Ferromagnetic Substances at Various Temperatures	165	i		
Cherkashin, V. S. [Institute of Physics, Siberian Brane AS USSR, Krasnoyarsk]. Effect of Rapidly Changing Stres	eh ses			
Card 8/11				

s/194/61/000/012/063/097 D273/D303 24, 2200 (1068, 1160, 1164) Puzey, I. M., Lutoshkin, V. M. and Rad'kov, A. I. 18 8100 4016, 1418, 1555 Investigating the dynamics of domain structure in ui-Referativnyy zhurnal, Avtomatika i radioelektronika,
no 12 1061 14 abetract 12FR2 (V ab Magnith Relevativnyy Znurnal, Avtomatika i radioelektronike i Magnitn.

10. 12, 1961, 14, abstract 12E82 (V. Sb. Sib. otd.)

10. 12, 1961, 14, abstract Novosibirsk, Sib. otd.

10. 12, 1960, 155-164)

10. 155-164) AUTHORS: TITLE: TEXT: The influence of ultrasonics on ferromagnetics leads to a change of domain structures accompanied by a change TEXT: The influence of ultrasonics on ferromagnetics leads to a change of relaxation change of domain structures, accompanied by a change relaxation change of domain structures of the ultrasound. At modulus of elasticity and also of velocity of the ultrasound. PERIODICAL: relaxation change of domain structures, accompanied by a change of modulus of elasticity and also of velocity of the ultrasound. At modulus of elasticity and also of ultrasonic waves the domain relaxation times and large periods of ultrasonic waves. modulus of elasticity and also of velocity of the ultrasound. At the domain waves, the domain relaxation times and large periods of ultrasonic waves, the ultrasound times and large periods on the velocity of the ultrasound. The times and large periods of ultrasonic waves, the ultrasound relaxation times and large periods of ultrasonic waves, the ultrasound structure does not have any influence on the velocity of the ultrasound. At structure does not have any influence on the velocity of the ultrasound. In the case of application of a strong magnetic field, the
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Investigating the dynamics ...

Card 2/3

a cylindrical rod (diameter 16 mm, length 100 mm) of nickel, iron and transformer steel, was studied for different frequencies and different fields. Velocity was measured using an ultrason: pulse method. Y-cut quartz discs of frequency 1.4 Mc/s were used as transmitter and receiver of ultrasound, and they were smeared with grease or wax on the face in contact with the sample end. The sample was suspended in a solenoid so that it was possible to consider it in a state of free weight. A block-diagram is given of the set-up for the formation and reception of ultrasonic pulses. The pulses are applied to the piezo-quartz transmitter of the sample and are propagated through to the piezo-quartz receiver, and then go through an amplifier and oscillograph. It is established that at '00 Kc/s there is a change in velocity of dispersion of the ultrasound in nickel as the magnetic field increases. In fields up to '000 3 (E) the velocity decreases and then increases. In strong fields there is a slight decrease in velocity, connected with the appearance of microscopic Foucauld currents. For alloys with high electric conductivity, the lowering of velocity of the ultrasound in strong fields was not observed (weak Foucauld currents, relatively smaller magne-

3357l₄ S/194/61/000/012/069/097 D273/D303

Investigating the dynamics ...

tostriction). Dispersion curves are drawn for nickel, iron and transformer steel, with measurements not of absolute value of velccity, but of its change on the application of a magnetic field. There is an increase in velocity with one in frequency in the range 16 Kc/s to 3 - 4 Mc/s. For nickel, hardened steel and iron, curves are obtained of the dependence of the damping constants of ultrasound on the value of the magnetic field at frequencies of 100 Kc/s and 1 Mc/s with a maximum damping at the beginning of the curve. Maximum damping and minimum velocity in weak fields are explained by the increased permeability of the submagnetic state. There is obtained the frequency dependence of the damping constant for iron (at a frequency of 180 Kc/s there is a maximum) and for transformer steel (absorption spectrum). 11 figures. 13 references. / Abstractor's note: Complete translation. /

ιX

Card 3/3

\$/776/62/000/025/004/025

AUTHORS: Puzey, I.M., Rad'kov. A.I.

TITLE: Investigation of the dispersion of ultrasound in ferromagnetic substances.

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Sbornik trudov. no. 25. Moscow, 1962. Pretsizionnyye splavy. pp. 71-85.

TEXT: This experimental investigation deals with the profound effect that the interrelationship between elastic and magnetic phenomena exerts on the passage of ultrasonic (US) waves through ferromagnetics. US affects primarily the domain structure in a manner analogous to a magnetic field, so that there is a displacement of the boundaries between domains. This displacement remains reversible with small amplitudes. The present investigation deals with the dynamics of the action of US on the domain structure, which - because of the absence of any effect analogous to the skin effect of the magnetic field - is considerably more deeply penetrating for the US field than for the magnetic field. The action of the US on the domain structure leads to its relaxational change, a concomitant Δ E effect, and, hence, an alteration of the speed of propagation of the US. When the relaxation time is appreciably greater than the period of the US waves, the domain structure will not exert a sub-

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Investigation of the dispersion of ultrasound

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stantial effect on the rate of propagation of the US waves, that is, in that event, the material will behave as though it were nonferromagnetic. The same occurs if a strong magnetic field is superimposed on a breakdown of the domain structure. Details of the making of the rods (electrolytic Ni 000, Armco Fe, Mo Permalloy, and transformer steel with 4% Si) is detailed. The US tests were made at frequencies from tens of keps to several meps in the presence of various MF (up to 10,000 b). The HTof the specimens is identified. A block diagram of the testing equipment is shown, and typical oscillograms, depicting the interference pattern under "in-phase" and "counterphase" conditions, are shown. In all of the materials investigated a velocity minimum and a damping maximum of the US waves was observed in the initial region of the fields which, apparently, corresponds to a magnetization of 30-50% of the saturation value. This effect is attributed to a more ready mobility of the domain boundaries upon the imposition of a magnetic field. When the field eliminates their resistance to motion, the permeability of the material increases sharply. This occurs in all ferromagnetics. A decrease of the speed of US in Ni in the region of strong fields is attributed to the appearance of macroscopic circular Foucault currents. This hypothesis is discussed in some detail. As expected, there is a damping maximum at a certain critical frequency which in Fe appears at 180 kcps and in Permalloy at 20 kcps. Another critical frequency is found for the maximum of magnetic losses in a variable magnetic field.

Card 2/3

HT: Abbreviation for heat treatment.

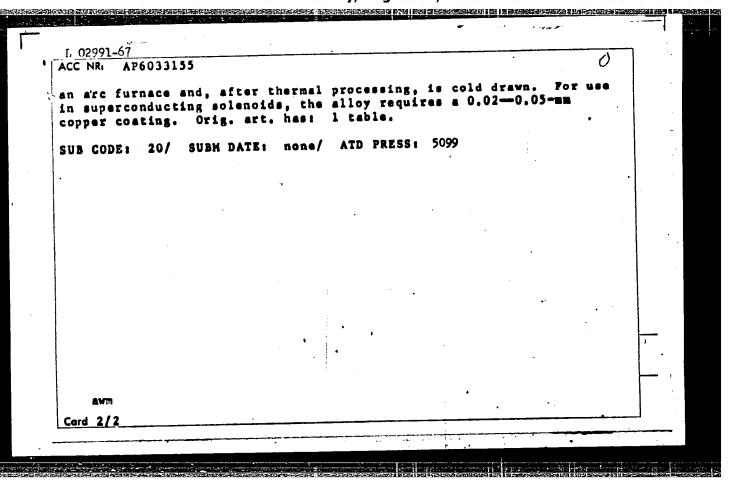
Investigation of the dispersion of ultrasound

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This frequency must coincide with the critical frequency of the damping of the US waves, since both of them are a result of the relaxational characteristics of the displacement of the domain boundaries, regardless of the nature of the force under the effect of which this displacement occurs. A great difficulty encountered was the complexity of the spectrum of proper frequencies of the rods employed in the experiments, the mathematical theory for which does not admit any exact expression. This difficulty was overcome by measuring not the absolute speed of the US waves, but its changes with the imposition of a magnetic field at various frequencies, a procedure which afforded a possible determination of the dispersion curves. This absolute speed is then determined by adding the speed in a magnetic field at the basic frequency of a rod and the speed produced by the effect of the given magnetic field. Other difficulties occurred with the broadening of the resonance lines, which reduced the resolving power of the method. There are 15 figures and 11 references (8 Russian-language Soviet, 1 German, and 2 English-language).

Card 3/3

ACC N	1-67 FWT(m)/FWP(t)/FTI TJP(c) MJW/JD/JG / R: AP6033155 SOURCE CODE: UR/0105/66/000/010/0082/0083 /	7
AUTHO	OR: Gorina, N. B.; Gruznov, Yu. A.; Kolobanov, V. V.; Matoria.	-
n N.	Fedorov, L. W., Kill district	
	Central Scientific Research Institute of Fenrous Metalluray L. P. Bardin (Tsentral nyy nauchno-issledovatel skiy institut	
im.	noy metallurgil)	
TITL		
	CE: Elektrichestvo, no. 10, 1966, 82-83	
	C TAGS: superconducting alloy, superconductivity RACT: A new, relatively low cost Nb-Ti based alloy, designated	
65BT	which meets all the major of its properties it can be used in	
1) n	agnetizing devices, such as superconducting solenoids, to hagnetizing devices, such as superconducting solenoids, to hagnetizing devices, such as superconducting solenoids, and in diameter than in diameter than a several or the solenoids, which contains to 12,000 m long and tapes 5 μ thick. The alloy, which contains to 12,000 m long and tapes 5 μ thick. The alloy, which contains an injuries of the solenoids, is produced niobium, 25% titanium, and several other components, is produced niobium.	ns in
65%	niobium, 25% titanium, and several other company	
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RADROV, DIMITOR

BULGARIA/Meadow Cultivation.

Abs Jour : Ref Zhur - Biol., No 21, 1958, 95891

Author : Radkov, Dinitor

Inst : Improvement of Pastures by Means of Enclosing Sheep.

Orig Pub : Selskostop. misol. 1957, 2, No 11, 674-678

Abstract : No abstract.

card 1/1

BINING, I. K.

RAD'KOV, F. K.: "The use of nomograms in determining the real values of angles on a color diagram." Min Higher Education USBR. Moscow Order of Lenin Aviation Inst imeni Sergo Ordzhonikidze. Moscov, 1956. (Dissertation for the Degree of Candidate in Technical Sciences)

Knizhnaya letopis', No 39, 1956, Moscow.

RAD'KOV, F. K., Cand of Tech Sci — (diss) "TheUse of a Nomogram for Determing the Exact Measurements of Angles in a Complex Drawing," Moscow, 1959, 9 pp (Moscow Aviation Institute im Sergo Ordzhonikidze) (KL, 1-60, 120)

RAD'KOV, F.K., starshiy prepodavatel'

Use of nomograms in determining the true values of angles by their projections. Trudy MIGAIK, no.36:93-108 '59. (MIRA 13:4)

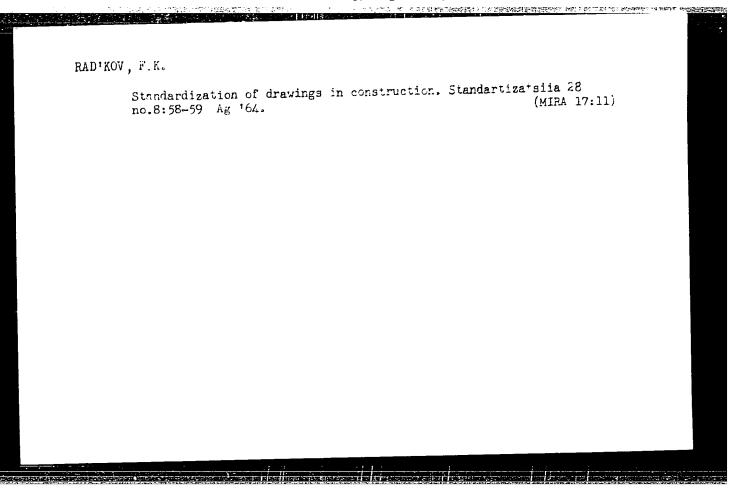
1. Kafedra obshchego mashinostroyeniya Moskovskogo instituta inzhenerov goodazii aerofotos" yemki i kartografii. (Nomography (Mathematics)) (Goniometry) (Geometry, Descriptive)

RAD'KOV, F.K., kand.tekhn.nauk

New state standards for drawin.s in the machinery industry.

Vest.mash. 40 no.9:79-80 S '60. (MIHA 13:9)

(Mechanical drawing-Standards)



RETAIN, I.

"Utilization of the uper parming action in cultivating local limits" (p.109)

OCENIC STOPA STO

(Uproverse in Burshoto Stepanstvo Kum Ministeroldia Suvet) Sofira Vol 10 Io 1 Jan 1954

30: East Duropean Accessions List Vol 2 No 7 Aug 1955

RADKOV, I.

Possibility of Organizing a Forest Enterprise for Production of Pitwood from Forests of Low-Limbed Oak in Bulgaria. p. 179, Sofiya, Vol. 10, no. 4, Apr. 1954.

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

BULGARIA / Forestry. Biology and Typology of the Forest. K-1

Aus Jour: Ref Zhur-Biol., No 6, 1958, 24846.

: Radkov, Iliya N.; Marinov, Marin D. Author

Inst : Not given.

: Biological Features of Firs Cultivated in the Title

Leskhoz imeni V. Kolarov (Beglik hollow).

Orig Pub: Izv. Botan. in-t. B"lgar. AN, 1956, 5, 145-189.

Abstract: The leskhoz is situated in the central part of the Western Rhodopes, 1600-1800 m. above sea level. The soil-climatic conditions of the region are described. Pure fir groves (80% of the area) on the northern slopes rise above 1,600 m., while on the southern ones - to the very border of the for-

Card 1/4

APPROVED FOR RELEASE: Tuesday, August 01, 2000 the GIA-RDP86-00513R0013

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24646.

Abstract: est (2,000 m.). Native plantations are characterized by clearly being of all ages, graded slopes, low branch density, and a grouped arrangement of trees, distinguished by pronounced cone-shaped crowns. Natural renewal of the fir groves proceeds very well on the northern slopes and well on the southern ones; at the height of 1850-1900 m., it strongly deteriorates. On the northern slopes, the young trees adapt on the whole to the natural glades with more sparse cover of bilberries and grow very slowly here, developing a great need for light. On the southern slopes, it is arranged under cover of the maternal plantings, avoiding in this way injurious extreme temperatures. Elimination of the mother plantings as a result of fellings, wind or fire does not lead to a change of

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24846.

Abstract: methods of conducting the main fellings, depending on the altitude location of the plantings. Bib. 10 titles.

Card 4/4

2

RADKOV, I

Experiments to determine the role of coarse humas in the germination of Spruce seed. p. 60 GORSKO STOPANSTVO. Vol. (12) No. 2, (Feb.) 1956 Sofiia, Bulgaria

So. East European Accessions List Vol. 5, No. 9

September, 1956

PARLY, 1. Tests types of forests in the conferous terests on the north ridges of the Tills Fountains, p. 721.

Vol. 16, No. 6, June 1956.
CCRSNO STC. 18790
AGRICULTY
Softis, Fulgris
So: East European Accession, Vol. 6, No. 2, February 1957

RADKOV, I

"Aiding the reforestation of the oak forests on the Eastern Balkan Mountains."

p. 295 (Gorsko Stopanstvo. Vol. 13, no. 7, Sept. 1957, Sofia, Bulgaria)

Monthly Index of East European Accessions (EFAI) IC, Vol. 7. No. 2, February 1958

RADKOV, I; MARINOV, M.

Management of the spruce plants according to their natural growth in the V. Kolarov Forest Service. p. 59. (GORSKO STOPANSTVO, Vol. 13, no. 2, Feb 1957, Sofia, Bulgaria.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 12, December 1957 Uncl.

K

Country Category BULGARIA

Forestry. Forest Management.

Abs Jour

: RZhBiol., No 6, 1959, No 24725

Author

Radkov, I. N.; Minkov, Io.

Inst

: Assistance in the Restoration of Oak Forests

Tetle

in the Eastern Stara Plain.

Orig Pub

Gorsko stopanstvo, 1957, 13, No. 295-303

Abstract

Measures, directed towards the assistance of natural regeneration, were examined; the experience of certain forestries is presented and technical recommendations are given. At the development of measures, securing the regeneration of the oak, it is recommended to take into consideration the fact that the present composition of oak forests is fixed under the

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Forestry. Forest Management.

Abs Jour

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0013

Inst

Title

Orig Pub

Abstract

influence of the economy's activity. Primarily, linden, ash, hornbeam, elm, beech, wild cherry, aspen, platan and other species were noticed to have taken great participation in its composition; together with oak they formed stable and productive plantations. It is recommended to return to the composition of the forrests the above-mentioned species, using them as a speed-up for the oak. -- G. V. Grigor yev

Card

2/2

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RADKOV, Iliia N. d-r. inzh.

Old ore mining in the Rila Mountains and its influence on the forests. Prir i znanie 13 no.5:18-21 My '60. (EEAI 9:11) (Bulgaria--Ores) (Bulgaria--Forests and forestry) (Rila Mountains)
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RADKOV, M.

A case of aplasia of the bile ducts and biliary cirrhosis of the liver in an infant. Suvr. med. 13 no.7:34-35 162.

(LIVER CIRRHOSIS) (BILE DUCTS) (GALLBLADDER) (ABNORMALITIES)

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RADKOV, Stefan N.

Treatment of trichomonal colpitis. Akush. i gig. 33 no.2:83-84

Mr-Ap '56.

(MIRA 9:7)

1. Iz akushersko-ginekologicheskoy bol'nitay goroda Stalin
(Bolgariya) (glavnyy vrach Georgi Stefanov)

(YAGINA--DISMASM) (TRICHOMONIASIS) (DDT (INSMCTICIDM))
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Monthly List of Russian Accessions, Library of Congress, August 1952. UNCLASSIFIED

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Setsimistic menata Zard Cet'll Strazim Ffay Grazila e.St (Secialistic law of early Religional for the Sivilas of the USE) lesson, Genum Edat, 1956. es f. (Fabre Chefultam Mya Yureligionalaya mulliatiba, Fibilemaninah
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EWT(m)/EWP(w)/EWA(d)/T/EnP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c)ACC NR. AP5022379 MJW/JD/HW SOURCE CODE: UR/0136/65/000/009/0067/0071 AUTHOR: Kozlovskaya, V. P.; Bavykina, I. M.; Rad'kova, ORG: none TITLE: Mechanical properties and structure of cold-extruded aluminum-alloy tubes and bars SOURCE: Tsvetnyye metally, no. 9, 1965, 67-71 TOPIC TAGS: aluminum alloy, alloy extrusion, extrusion, alloy tube, alloy bar, tube extrusion, bar extrusion, alloy mechanical property ABSTRACT: The feasibility of cold extrusion of aluminum alloy tubes and bars has been investigated. AD1, AV, $\frac{\text{D1}}{\text{AV}}$ and $\frac{\text{D16}}{\text{Alloy}}$ tubes 9, 8, or 7.2 mm in diameter, with respective wall thickness of 1.5, 1, or 1.1 mm, were cold extruded from hot extruded shells, at extrusion ratios of 14.2, 23.3, or 40. The mechanical properties of tubes 300-400 mm long were roughly equal to those of tubes produced by conventional methods (hot extrusion and cold rolling). For instance, cold-extruded D16 alloy tubes after heat treatment had a tensile strength of 43—50 kg/mm², a yield strength of 26 to 38 kg/mm², and an elongation of 14—20%, compared to 42 kg/mm², 26 kg/mm², and 14%, respectively, for conventionally made tubes. The mechanical properties of coldextruded AV and D1 alloy tubes 1500 mm long decreased toward the rear end (a result of grain coarsening), but not below the values required by specifications. Cold-ex-Card 1/2 669.715-126:621.78 UDC:

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truded D1 alloy tubes 16 mm in diameter and 1500—2000 mm long, tested in the asextruded, annealed, and heat-treated conditions, were found to have technological properties (in bending, expanding, and squeezing tests) similar to those of conventionally made tubes, but a somewhat lower tensile strength (by 1 kg/mm²) and yield strength (bý 3 kg/mm²) and a 5% higher elongation. An insignificant anisotropy of mechanical properties was observed in cold-extruded V96 alloy tubes tested in the as-extruded condition. The AD1, AV, and D16 alloy bars 30, 25, 18, or 16 mm in diameter cold extruded at extrusion ratios of 7, 10, 19, or 24 had better mechanical properties than those of bars produced by conventional methods; σ_{13} , $\sigma_{0.2}$, and $\sigma_{0.2}$ and

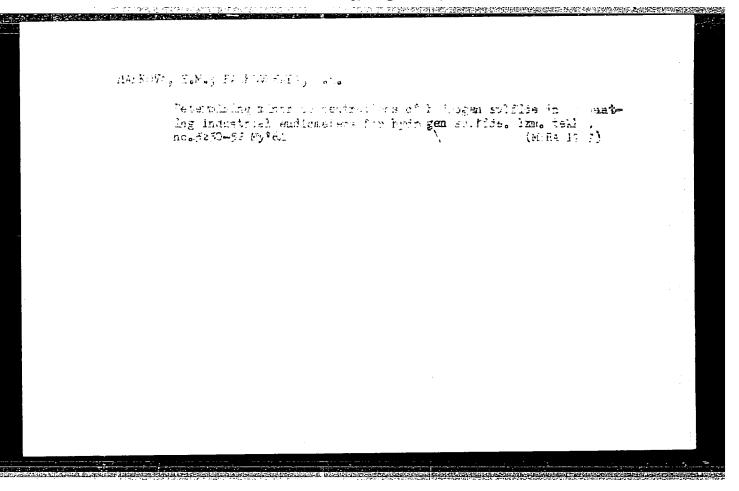
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Card 2/2

KOZLOVSKAYA, V.F.; BAVYKINA, I.M.; RAD'KOVA, R.N.

Mechanical projecties and structure of cold extraded aleminum alloy tubes and bars. TSvet. met. 38 no.9:62.21 S 165.

(MIRA 18:12)



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RADKOVSKY, J; SVANDOVA, E.

Prague

Prague, Veterinarstvi, No 4, 1963, pp 169-180

"Statistical Evaluation of Tuberculin Tests in Cattle."

SAZHINOV, Viktor; KUPRIYANOV, Aleksey; MAKARTSEV, Ivan; VOROBEY, Aleksandr; DEMENKOVETS, Nikolay; MURASHKO, Petr; KULINKOVICH, Aleksandr; TULUYEVSKIY, Ivan; RADKOVSKIY, Leonid

Our experience in the operation of the BPF-2 pneumatic combine.

Torf. prom. 40 no.4:5-12 '63. (MIRA 16:10)

1. Mokeikha-Zybinskoye torfopredpriyatiye Yaroslavskoy obl. (for Sazhinov, Kupriyanov). 2. Torfopredpriyatiye "Bol'shevik" Soveta narodnogo khozyaystva BSSR (for Makartsev).
3. Torfopredpriyatiye Vasilevichi II Soveta narodnogo khozyaystva

BSSR (for Vorobey, Demenkovets). 4. Torfobriketnyy zavod "Ulyazh" (for Murashko, Kulinkovich, Tuluyevskiy). 5. Torfobriketnyy zavod "Berezinskoye" (for Radkovskiy).

(Peat machinery)

25(1), 28(1), 32(2)

SOV/118-59-9-9/20

AUTHORS:

Radkovskiy N.A., Engineer, and Ivanov M.I and

Kishinskiy M.I., Candidates of Technical Sciences

TITLE:

Mechanization of Snow-Ice Road Building

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, 1959. Nr. 9, pp 37-41 (USSR)

ABSTRACT:

Most of the timber cutting regions are notable for their snowy winters when snow lies over 5-6 months in a year, 50-60 cm high. On the other hand, the vast boggy areas often encountered in these regions hinder and sometimes make it altogether impossible to transport timber during the summer time. Under these circumstances, the advantages of winter transport become evident, hence the importance of winter road building mechanization. All the outfits for snow-road building applied in the Soviet Union until now (wooden rollers, squares, track cleaners, etc.) were primitive, hand-made devices which did not ensure an adequate functioning of winter roads and required much manual labor for their maintenance. Finally two designs ensuring a high efficiency

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degree and diminishing the volume of labor required for the building and maintenance of winter roads have been worked out and put into operation. One of these devices is an automotive vacuum sprinkler, designed by V.G. Shtarker, another is an assembly for maintaining the proper condition, designed by E. Ya. Vitkovskiv. The vacuum sprinkler is a heated, 4 m³ capacity tank mounted on the automobile ZIL-150 (Fig. 1). At switching to "vacuum", the automobile motor begins to suck the air from the tank, and water from a reservoir enters through a hose into the tank. When the tank is filled, an electric switch connected with a floating device, automatically switches the motor back to "atmosphere" and stops the water entering the tank. The water inlet and outlet attachments, as well as the hose, are heated by exhaust gases; even during the strongest frosts they never freeze and operate faultlessly. The inside of the tank is also heated; as a result, the water temperature never drops below 10° - 14° C. To let the water out, the dri-

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ver opens the water outlet by means of a special lever placed in his cabin. Water comes out on a tray and is distributed along the entire width of the stretch which must be covered with ice. The water lifting height is 3 to 5 m, which is sufficient for taking it from natural sources. At the Bortomskaya single-track ice road in the Komi ASSR, efficiency of such a sprinkler was 64 m³ a day. The assembly for road maintenance is shown in Fig. 2. It comprises, on the whole, a scraper. a wire brush and a fan which consecutively clean the track Simultaneously with the cleaning, the assembly does road levelling by removing the surplus snow from the track Application of such an assembly in the Arkhangel'skaya oblast' has permitted keeping a road in good condition without using any trackmen, while formerly it was required to keep a worker for every 1-2 km of the road To decrease labor expenditure and the cost of building and maintenance of winter roads, they are built by means of snow compacting; particularly it applies to such roads where the traffic is limited. In order to intensify the process of compacting, a special assembly was designed (Fig. 3). It consists of three units: a device in the

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form of a quickly rotating cutter for loosening the snow, an attachment for heating the snow, and a vibration compacting outfit. The cutter is round in shape, 80 cm in diameter; its peripherial rotation speed varies from 15 to 25 m/sec. The heat energy is introduced into the snow, by burning a liquid oil through the nozzles placed in the upper part of the heat chamber. The compacting device consists of a plate 70 cm long; lifting angle of its front part is 15°-20°; kinetic moment of vibrator debalance varies from 2 to 25 kg/cm; vibration frequency is 4000 oscillations a minute. The assembly is mounted on runners and can be trailed by tractor DT-55 or S-80.

1.5 to 2 km of track 2.2 m wide can be compacted within an hour. There are 3 tables and 3 diagrams.

Card 4/4

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